

CLAIMS

- 1 1. A pollution control kit for use in reducing pollution emissions from a vehicle
- 2 engine, the pollution control kit comprising:
- 3 an airborne catalyst dispenser configured for installation into the vehicle engine to
- 4 dispense at least one airborne catalyst into an intake air stream of the vehicle
- 5 engine; and
- 6 a fuel filter configured to couple to a fuel line of the vehicle engine between a fuel tank
- 7 supplying fuel to the vehicle engine and the vehicle engine.

- 1 2. The pollution control kit of claim 1, wherein the fuel filter is a fuel purifier
- 2 configured to separate water from the fuel and to filter particulates from the fuel.

- 1 3. The pollution control kit of claim 2, further comprising a microfine fuel filter
- 2 configured to couple to the fuel line of the vehicle engine between the fuel purifier and
- 3 the vehicle engine.

- 1 4. The pollution control kit of claim 3, further comprising a bypass oil filter
- 2 configured to couple to the vehicle engine such that the bypass oil filter receives oil from
- 3 the engine, filters contaminants from the engine oil, and returns the filtered oil to the
- 4 engine.

1 5. The pollution control kit of claim 4, wherein the bypass oil filter is one of a depth-
2 type bypass oil filter and a microfine bypass oil filter.

1 6. The pollution control kit of claim 1, wherein the fuel filter is a microfine fuel
2 filter configured to remove particulates from the fuel that are less than or equal to about 5
3 microns in size.

1 7. The pollution control kit of claim 6, further comprising a bypass oil filter
2 configured to couple to the vehicle engine such that the bypass oil filter receives oil from
3 the engine, filters contaminants from the engine oil, and returns the filtered oil to the
4 engine.

1 8. The pollution control kit of claim 7, wherein the bypass oil filter is one of a depth-
2 type bypass oil filter and a microfine bypass oil filter.

1 9. The pollution control kit of claim 1, further comprising a bypass oil filter
2 configured to couple to the vehicle engine such that the bypass oil filter receives oil from
3 the engine, filters contaminants from the engine oil, and returns the filtered oil to the
4 engine.

1 10. The pollution control kit of claim 9, wherein the bypass oil filter is one of a depth-
2 type bypass oil filter and a microfine bypass oil filter.

1 11. A pollution control kit for use in reducing pollution emissions from a vehicle
2 engine, the pollution control kit comprising:
3 an airborne catalyst dispenser configured for installation into the vehicle engine to
4 dispense at least one airborne catalyst into an intake air stream of the vehicle
5 engine;
6 a bypass oil filter configured to couple to the vehicle engine such that the bypass oil filter
7 receives oil from the engine, filters contaminants from the engine oil, and returns
8 the filtered oil to the engine.

1 12. The pollution control kit of claim 11, wherein the bypass oil filter is one of a
2 depth-type bypass oil filter and a microfine bypass oil filter.

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2 13. A method of controlling pollution by reducing pollution emissions from a vehicle
3 engine, the method comprising:
4 drawing fuel from a fuel tank of the vehicle engine and filtering the fuel with a fuel filter
5 of the vehicle;
6 filtering the fuel, in addition to filtering the fuel with the fuel filter of the vehicle, with at
7 least one of a microfine fuel filter and a fuel purifier filter prior to pumping the
8 fuel to the engine; and
9 burning a portion of the fuel in the engine in the presence of at least one airborne catalyst
10 supplied to the engine by an airborne catalyst dispenser.

1 14. The method of claim 13, wherein filtering the fuel with at least one of a microfine
2 fuel filter and a fuel purifier filter comprises filtering the fuel with both the microfine fuel
3 filter and the fuel purifier filter.

1 15. The method of claim 14, further comprising filtering contaminants from oil from
2 the vehicle engine with a bypass oil filter and returning the filtered oil to the engine while
3 burning the fuel in the engine.

1 16. The method of claim 13, wherein filtering the fuel is done with the microfine fuel
2 filter, the method further comprising filtering contaminants from oil from the vehicle
3 engine with a bypass oil filter and returning the filtered oil to the engine while burning the
4 fuel in the engine.

1 17. The method of claim 16, wherein the bypass oil filter is one of a depth-type
2 bypass oil filter and a microfine bypass oil filter.

1 18. The method of claim 13, wherein filtering the fuel is done with the fuel purifier
2 filter, the method further comprising filtering contaminants from oil from the vehicle
3 engine with a bypass oil filter and returning the filtered oil to the engine while burning the
4 fuel in the engine.

1 19. The method of claim 18, wherein the bypass oil filter is one of a depth-type
2 bypass oil filter and a microfine bypass oil filter.

1 20. The method of claim 13, further comprising suppressing at least one of transient
2 and spiking voltage with a voltage suppressor.